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No 17

Forest Service, United States Department of Agriculture

ALLEGHENY FOREST EXPERIMENT STATION*

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EXPERIMENT STATION

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Technical Note No. 17**

VOLUME TABLES FOR PLANTATION-GROWN YELLOW POPLAR (Liriodendron tulipifera L.)

7.153

The following tables were constructed from measurements taken in connection with a study of thinnings in a 25-year-old mixed white pine and yellow poplar plantation on the Loch Raven watershed of the city of Baltimore, Maryland, by the Alleghony Station in cooperation with the Maryland State Department of Forestry and the CCC.

YELLOW POPLAR - MARYLAND
(Liriodendron tulipifera L.)
Entire stem - Less bark - Cubic feet

E. F. Moyer 1937

D.B.H. o.b. inches	Total height - feet: 25	30	35	40	45	50	55	60	Basis: No. of trees
	Volume - cubic feet								
2.0	.28	.34	.40	.46					3
2.5	.42	.51	.60	.69	.78				
3.0	.57	.70	.83	.95	1.12				2
3.5	.75	.91	1.06	1.21	1.37				
4.0	.93	1.12	1.32	1.52	1.72				5
4.5	1.13	1.38	1.64	1.88	2.12	2.38	2.60		
5.0	1.36	1.66	1.96	2.25	2.55	2.84	3.12		3
5 5	1.61	1.96	2.33	2.67	3.00	3.38	3.72		
6.0	1.87	2.29	2.70	3.10	3.50	3.90	4.28		7
6.5		2.62	3.10	3.55	4.01	4.44	4.87		
7.0		3.00	3.55	4.05	4.54	5.01	5.60		7
7.5		3.40	4.00	4 58	5.13	5.76	6.3		
8.0		3.80	4.46	5.10	5.80	6.40	7.1		3
8.5		4.22	4.91	5.70	6 40	7 10	7.8	8.5	
9.0			5.50	6.2	7.1	7.9	8.6	9.4	4
9.5			6.0	6.9	7.8	8.6	9.5	10.4	
10.0			6.6	7.5	8.5	9.5	10.5	11.4	1
10.5			7.2	8.2	9.3	10.3	11.2	12.4	
11.0			7.8	8.9	10.1	11.2	12.4	13.4	
11.5				9.6	10.8	12.0	13.2	14.4	
12.0				10.3	11.6	13 0	14.2	15 4	1
Basis		3	1	9	7	13	2	1	36

Basis - 36 trees, Aggregate dev. Table 0.13 percent high; Ave. % dev. 5.0
Stump 0.5 ft. high, measured as a cylinder, volume measured by planimeter; table read from alinement chart constructed from logarithmic multiple regression equation.

* Maintained at Philadelphia, Pennsylvania, in cooperation with the University of Pennsylvania.

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**See Technical Note No. 16.

VOLUME TABLE

YELLOW POPLAR - MARYLAND
(Liriodendron tulipifera L.)
Merchantable stem - Less bark - Cubic feet
(To a four inch top i.b.)

E. F. Meyer 1937

D.B.H. o.b. inches	Total height - feet 40	45	50	55	60	Basis: No. of trees
	Volume - cubic feet					
5.0	1.18	1.25	1.32	1.40		1
5.5	1.76	1.92	2.08	2.24		2
6.0	2.35	2.57	2.78	2.97		6
6.5	2.90	3.20	3.50	3.78		
7.0	3.47	3.83	4.18	4.50		7
7.5	4.05	4.48	4.90	5.30		
8.0	4.60	5.10	5.60	6.03		3
8.5	5.18	5.70	6.25	6.8	7.3	
9.0	5.76	6.4	7.0	7.6	8.2	4
9.5	6.3	7.0	7.7	8.3	8.9	
10.0	6.8	7.6	8.3	9.0	9.7	1
10.5	7.4	8.2	9.0	9.7	10.5	
11.0	7.9	8.7	9.6	10.4	11.2	
11.5	8.3	9.3	10.2	11.0	11.9	
12.0	8.8	9.7	10.7	11.6	12.5	
Basis	3	6	13	2	0	24

Basis - 24 trees, Aggregate dev. Table 1.3% low; Ave. % dev.6.2
Stump 0.5 ft. high, measured as a cylinder, volume measured by planimeter; table read from alinement chart constructed from logarithmic multiple regression equation.

E. F. Meyer
Junior Forester

August 6, 1937.